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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Langermann et al.

Confirmation No. 9514

Application No.: 10/015,085

Group Art Unit: 1645

Filed: December 10, 2001

Examiner: To Be Assigned

For:

MUTANT PROTEINS, HIGH POTENCY

Attorney Docket No.: 10271-037-999

INHIBITORY ANTIBODIES AND FIMCH

CRYSTAL STRUCTURE

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56 AND §1.97

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#7 /K.1. 10/23 T.D.S.

**Assistant Commissioner for Patents** Washington, D.C. 20231

TECH CENTER 1600/2900

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent Office of all references coming to the attention of Applicants or Attorneys for Applicants which are or may be material to the patentability of any claim of the subject application, Attorneys for Applicants hereby direct the Examiner's attention to the references AA-BS listed on the attached revised form PTO 1449. A copy of each of the identified references is enclosed herewith.

Identification of the listed references is not to be construed an admission of Applicants or Attorneys for Applicants that such references are available as "prior art" against the subject application. Consequently, Applicants respectfully decline to use form PTO-1449, since this form identifies all of the references cited therein as "Prior Art." As an alternative, Applicants submit herewith a "revised form PTO 1449" entitled "List of References Cited by Applicant" instead of "List of Prior Art Cited."

Applicants request that the Examiner review all the references identified on the attached revised PTO Form 1449 and make them of record in the file history of the aboveidentified application.

Pursuant to 37 C.F.R. § 1.97(b)(3), since this information disclosure statement is believed to be filed before the mailing date of a first Office Action on the merits, no fee is due in connection herewith. However, should the Patent Office determine otherwise, please charge the required fee to Pennie & Edmonds LLP deposit account no. 16-1150; a duplicate of this sheet is enclosed.

Respectfully submitted,

Date June 19, 2002

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By Margaret B. Porivar RegNo. 40,922

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Enclosure

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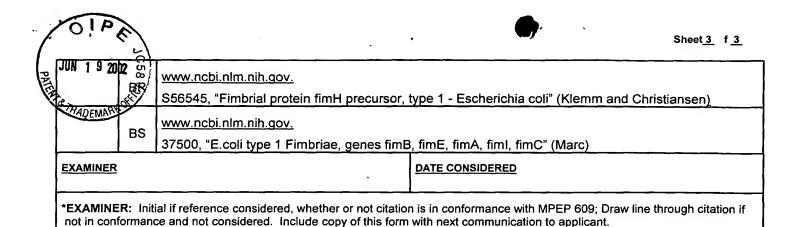
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Sheet 1 of 3

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JUN 1 9 2002 TECH CENTER 1600/2007-037-999 APPLICATION NO. TRADEMA 10/015,085 LIST OF REFERENCES CITED BY APPLICANT CONFIRMATION NO. APPLICANT (Use several sheets if necessary) Langermann et al. 9514 FILING DATE GROUP December 10, 2001 1645 **U.S. PATENT DOCUMENTS** \*EXAMINER INITIAL DOCUMENT NUMBER DATE CLASS SUBCLASS APPROPRIATE AA 11/21/89 Hull et al. 4.882,425 AB Linggood et al. 4,971,794 11/20/90 AC 09/298,494 04/23/99 Langermann et al. JUN ΑD 07/07/00 60/216,750 Langermann et al. 1600|2900 ΑE 09/615,846 07/13/00 Hultgren et al. AF 09/616,702 07/14/00 Hultgren et al. AG 6,103,243 08/15/00 Russell-Jones et al. **FOREIGN PATENT DOCUMENTS** DOCUMENT NUMBER DATE CLASS SUBCLASS TRANSLATION YES NO AH WO 95/14028 05/26/95 PCT ΑI WO 95/20657 08/03/95 **PCT** AJ WO 01/04148 01/18/01 PCT WO 01/10386 AK 02/15/01 PCT OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Abraham et al., 1985, "Protection against Escherichia coli-induced urinary tract infections with Hybridoma antibodies directed against type I Fimbriae of complementary D-mannose receptors" AL Infect. and Immunity 48: 625-628 Chapman et al., 1999, "Structural and functional significance of the FGL sequence of the periplasmic AM chaperone Caf1M of Yersinia pestis" J. Bacteriol. 181(8):2422-2429 Choudhury et al., 1999, "X-ray structure of the FimC-FimH chaperone-adhesin complex from AN uropathogenic Escherichia coli" Science 285(5430):1061-6 Dodson et al., 1993, "Outer-membrane PapC molecular usher discriminately recognizes periplasmic AO chaperone-pilus subunit complexes" PNAS 90:3670-3674 Flemmer et al., 1995, "Peptides inhibit complexation of the bacterial chaperone PapD and reveal AΡ potential to block assembly of virulence associated pili" Bioorg. Med. Chem. Lett. 5(9):927-932 Hultgren et al., 1989, "The PapG adhesin of uropathogenic Escherichia coli contains separate regions ΑQ for receptor binding and for the incorporation into the pilus" PNAS 86(12):4357-61 Hultgren et al., 1990, "Mannose-sensitive haemagglutination in the absence of palliation in AR Escherichia coli" Mol. Microbiol. 4:1311-8 Hung et al., 1996, "Molecular basis of two subfamilies of immunoglobulin-like chaperones" EMBO J. AS 15(15):3792-805 Jones et al., 1993, "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in AT bacteria" PNAS 90(18):8397-401

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